substrate carrier which is arranged to be drivingly rotatable about a second axis, wherein said first and said second axes are oblique with respect to one another at an angle of less than 90°, and said sputtering source is a magnetron sputtering source with at least one toroidal magnetic field around said first axis with symmetric field polarity as viewed in a cutting plane through said new sputter surface, which cutting plane contains said first axis.

- 47. (Amended) The chamber of claim 35, wherein said new sputter surface is substantially rotationally symmetrical with respect to said first axis and has a diameter Φ_T and wherein a locus of smallest mutual spacing of said first and of said second axes has a distance D to said new sputter surface and wherein $3/4 \le \Phi_T$ /D ≤ 2 .
- 48. (Amended) The chamber of claim 47, wherein $\Phi_{\rm T}$ equals approximately 1.2 D.
- 50. (Amended) The chamber of claim 49, further comprising at least one of said substrate on said receiving surface, said locus being situated at least approximately on a plane defined by a surface of said at least one substrate to be sputter coated.
- 58. (Amended) A method for manufacturing coated workpieces comprising the steps of

introducing a workpiece into a sputtering chamber, rotating said workpiece about a rotational axis,

providing a sputtering source with a sputtering surface and having a central axis which is oblique with respect to said rotational axis at an angle of less than 90°,

sputter coating said workpiece by said source thereby providing at said source at least one toroidal magnetic field with a symmetric field-polarity considered in a cutting plane through said sputter source, which cutting plane contains said normal axis.